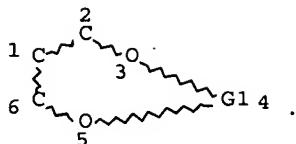


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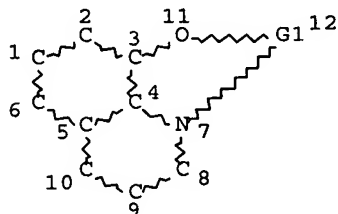
L2 10 SEA FILE=REGISTRY ABB=ON PLU=ON (17067-62-8/BI OR  
 17631-68-4/BI OR 17978-77-7/BI OR 18323-96-1/BI OR  
 188037-40-3/BI OR 355-74-8/BI OR 7440-52-0/BI OR 77974-92-6  
 /BI OR 802-93-7/BI OR 813468-12-1/BI)  
 L3 STR



VAR G1=ER/PR/ND  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 6

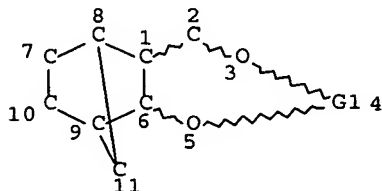
STEREO ATTRIBUTES: NONE  
 L5 STR



VAR G1=ER/PR/ND  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE  
 L8 3295 SEA FILE=REGISTRY SSS FUL (L3 OR L5)  
 L11 STR

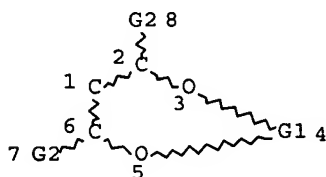


VAR G1=ER/PR/ND  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L13 27 SEA FILE=REGISTRY SUB=L8 SSS FUL L11  
 L15 194 SEA FILE=REGISTRY SUB=L8 SSS FUL L5  
 L16 STR



VAR G1=ER/PR/ND  
 VAR G2=AK/CB  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L18 1667 SEA FILE=REGISTRY SUB=L8 SSS FUL L16  
 L19 3 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1-100/SI  
 L20 67 SEA FILE=HCAPLUS ABB=ON PLU=ON L13  
 L21 133 SEA FILE=HCAPLUS ABB=ON PLU=ON L15  
 L22 1410 SEA FILE=HCAPLUS ABB=ON PLU=ON L18  
 L24 11504 SEA FILE=HCAPLUS ABB=ON PLU=ON SILSESQUIOXANES+PFT,NT/CT  
  
 L25 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND L24  
 L26 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND BRIDGED POLYSESQU  
 IOXAN?  
 L27 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND BRIDG?(2A) POLYSES  
 QUIOXAN?  
 L28 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND BRIDG?(2A) SILSESQ  
 UIOXAN?  
 L29 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND SILSESQUIOXAN?  
 L30 3 SEA FILE=HCAPLUS ABB=ON PLU=ON (L25 OR L26 OR L27 OR L28  
 OR L29)  
 L31 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L19  
 L32 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND L31  
 L33 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND HOST(2A) MATRI?  
 L34 41 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND MATRI?  
 L35 30 SEA FILE=HCAPLUS ABB=ON PLU=ON L34 AND OPTIC?/SC,SX  
 L36 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR L32 OR L33 OR L35

L39 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND (L24 OR BRIDG?(2A  
 )SILSESQUIOXAN? OR BRIDG?(2A)POLYSESQUIOXAN? OR SILSESQUIO  
 XAN?)

L40 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND SILI?

L41 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND MATRI?

L42 14 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND OPTIC?/SC,SX

L43 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L39 OR L40 OR L41 OR L42

L44 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (L24 OR BRIDG?(2A  
 )SILSESQUIOXAN? OR BRIDG?(2A)POLYSESQUIOXAN? OR SILSESQUIO  
 XAN?)

L45 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND MATRI?

L46 65 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND OPTIC?/SC,SX

L47 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L46 AND HOST?

L48 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L46 AND SESQUIOX?

L49 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L46 AND DEV/RL

L50 23 SEA FILE=HCAPLUS ABB=ON PLU=ON L44 OR L45 OR L47 OR L48  
 OR L49

L51 71 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 OR L43 OR L50

L52 54 SEA FILE=HCAPLUS ABB=ON PLU=ON L51 AND (1840-2003)/PRY,AY  
 ,PY

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L52 ANSWER 1 OF 54 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:210023 HCAPLUS Full-text

DOCUMENT NUMBER: 142:268924

TITLE: Highly rare earth-doped polymer optical materials,  
 optical amplifiers using them, and method for  
 manufacture of the amplifiers

INVENTOR(S): Sasaki, Shinya; Yamagishi, Yasuo

PATENT ASSIGNEE(S): Fujitsu Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005064025	A	20050310	JP 2003-207271	20030812

PRIORITY APPLN. INFO.: JP 2003-207271 20030812

ED Entered STN: 10 Mar 2005

AB The materials are manufactured by mixing M alkoxides (M = Er, Eu, Pr, Y) with polysilanes SiR<sub>1</sub>R<sub>2</sub>SiR<sub>3</sub>R<sub>4</sub> [R<sub>1</sub>-R<sub>4</sub> = Ph, Me, Et, OMe, OEt, OSiO (crosslinked)] or organic-inorg. hybrid materials manufactured from RSi(OR<sub>5</sub>)<sub>3</sub> [R = (CX<sub>2</sub>)<sub>n</sub> CH:CHCO<sub>2</sub>R<sub>6</sub>; X = H, F; R<sub>5</sub> = Me, Et, Pr; R<sub>6</sub> = H, Me, Et, C<sub>2</sub>F<sub>5</sub>; n = 1-3]. The method includes forming first cladding layers, applying the above materials to give core layers, forming second cladding layers, and patterning the core and second cladding layers to give optical waveguides. The materials show high content of rare earth elements without aggregation, resulting in small-sized optical amplifiers.

IT 14553-08-3, Tris(acetylacetonato)erbium  
 (high rare earth-doped polymer optical materials as core layers for  
 optical amplifiers)

RN 14553-08-3 HCAPLUS

CN Erbium, tris(2,4-pentanedionato-kO,kO')-, (OC-6-11)- (9CI)

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(FILE 'HOME' ENTERED AT 08:08:56 ON 04 DEC 2007)

FILE 'HCAPLUS' ENTERED AT 08:09:04 ON 04 DEC 2007

L1 1 SEA ABB=ON PLU=ON US20040263952/PN  
SEL RN

FILE 'REGISTRY' ENTERED AT 08:09:18 ON 04 DEC 2007

L2 10 SEA ABB=ON PLU=ON (17067-62-8/BI OR 17631-68-4/BI OR  
17978-77-7/BI OR 18323-96-1/BI OR 188037-40-3/BI OR  
355-74-8/BI OR 7440-52-0/BI OR 77974-92-6/BI OR 802-93-7/BI  
OR 813468-12-1/BI)  
L3 STR  
L4 50 SEA SSS SAM L3  
L5 STR  
L6 12 SEA SSS SAM L5  
L7 50 SEA SSS SAM (L3 OR L5)  
L8 3295 SEA SSS FUL (L3 OR L5)  
L9 STR L3  
L10 1 SEA SUB=L8 SSS SAM L9  
L11 STR L9  
L12 2 SEA SUB=L8 SSS SAM L11  
L13 27 SEA SUB=L8 SSS FUL L11  
SAV L8 MAT690/A  
SAV L13 MAT690A/A  
L14 12 SEA SUB=L8 SSS SAM L5  
L15 194 SEA SUB=L8 SSS FUL L5  
SAV L15 MAT690B/A  
L16 STR L3  
L17 50 SEA SUB=L8 SSS SAM L16  
L18 1667 SEA SUB=L8 SSS FUL L16  
SAV L18 MAT690C/A  
L19 3 SEA ABB=ON PLU=ON L2 AND 1-100/SI

FILE 'HCAPLUS' ENTERED AT 08:28:19 ON 04 DEC 2007

L20 67 SEA ABB=ON PLU=ON L13  
L21 133 SEA ABB=ON PLU=ON L15  
L22 1410 SEA ABB=ON PLU=ON L18  
L23 1 SEA ABB=ON PLU=ON L1 AND L22  
E SILSESQUIOXANES/CT  
L24 11504 SEA ABB=ON PLU=ON SILSESQUIOXANES+PFT,NT/CT  
L25 3 SEA ABB=ON PLU=ON L22 AND L24  
L26 1 SEA ABB=ON PLU=ON L22 AND BRIDGED POLYSESQUIOXAN?  
L27 1 SEA ABB=ON PLU=ON L22 AND BRIDG?(2A)POLYSESQUIOXAN?  
L28 1 SEA ABB=ON PLU=ON L22 AND BRIDG?(2A)SILSESQUIOXAN?  
L29 3 SEA ABB=ON PLU=ON L22 AND SILSESQUIOXAN?  
L30 3 SEA ABB=ON PLU=ON (L25 OR L26 OR L27 OR L28 OR L29)  
L31 11 SEA ABB=ON PLU=ON L19  
L32 1 SEA ABB=ON PLU=ON L22 AND L31  
L33 2 SEA ABB=ON PLU=ON L22 AND HOST(2A)MATRI?  
L34 41 SEA ABB=ON PLU=ON L22 AND MATRI?  
L35 30 SEA ABB=ON PLU=ON L34 AND OPTIC?/SC,SX  
L36 32 SEA ABB=ON PLU=ON L30 OR L32 OR L33 OR L35  
L37 3 SEA ABB=ON PLU=ON L36 AND HOST?  
L38 32 SEA ABB=ON PLU=ON L36 OR L37  
L39 0 SEA ABB=ON PLU=ON L20 AND (L24 OR BRIDG?(2A)SILSESQUIOXA  
N? OR BRIDG?(2A)POLYSESQUIOXAN? OR SILSESQUIOXAN?)

10/606,690

L40	1	SEA	ABB=ON	PLU=ON	L20 AND SILI?
L41	1	SEA	ABB=ON	PLU=ON	L20 AND MATRI?
L42	14	SEA	ABB=ON	PLU=ON	L20 AND OPTIC?/SC, SX
L43	16	SEA	ABB=ON	PLU=ON	L39 OR L40 OR L41 OR L42
L44	0	SEA	ABB=ON	PLU=ON	L21 AND (L24 OR BRIDG?(2A) SILSESQUIOXA N? OR BRIDG?(2A) POLYSESQUIOXAN? OR SILSESQUIOXAN?)
L45	4	SEA	ABB=ON	PLU=ON	L21 AND MATRI?
L46	65	SEA	ABB=ON	PLU=ON	L21 AND OPTIC?/SC, SX
L47	1	SEA	ABB=ON	PLU=ON	L46 AND HOST?
L48	0	SEA	ABB=ON	PLU=ON	L46 AND SESQUIOX?
L49	20	SEA	ABB=ON	PLU=ON	L46 AND DEV/RL
L50	23	SEA	ABB=ON	PLU=ON	L44 OR L45 OR L47 OR L48 OR L49
L51	71	SEA	ABB=ON	PLU=ON	L36 OR L43 OR L50
L52	54	SEA	ABB=ON	PLU=ON	L51 AND (1840-2003)/PRY, AY, PY